

A4

position of the eye, which instrument sends information about the position of the eye to the computer (48).

REMARKS

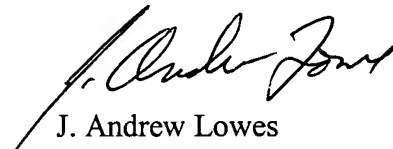
Claim 1 has been amended, claims 2-17 have been cancelled without prejudice, and claims 18-34 have been added. Claims 1 and 18-34 remain pending in the application. The filing fee has been calculated according to the above-amendments.

Attached hereto is a marked-up version of the changes made to claim 1 by the current amendment. The attached pages are captioned "Version With Markings to Show Changes Made."

Should the Examiner have any questions or comments regarding the amendments, the Examiner is invited to telephone the undersigned at the number listed below.

The Commissioner is hereby authorized to charge payment of any further fees associated with any of the papers submitted herewith or to credit any overpayment to Deposit Account No. 08-1394.

Respectfully submitted,

  
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Dated: 1/10/02

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This paper and fee are being deposited with the U.S. Postal Service Express Mail Post Office to Addressee service under 37 CFR §1.10 on the date indicated above and is addressed to the Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, VA. 22202
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## VERSION WITH MARKINGS TO SHOW CHANGES MADE

### IN THE TITLE:

[METHOD OF GENERATING A] CONTROL PROGRAM FOR A DEVICE FOR  
PHOTOREFRACTIVE CORNEAL SURGERY OF THE EYE

### IN THE ABSTRACT:

In [method of generating] a control program, according to which a laser-beam spot is guided, while being controlled with respect to position and time, over a cornea to be corrected photorefractively, so as to ablate a predetermined ablation profile therefrom, the effect of the angle between the laser beam and the corneal surface on the energy density of the laser-beam spot incident on the corneal surface and/or on the fraction of the laser-beam energy incident on the corneal surface which is reflected away, is taken into account when generating the control program.

### IN THE SPECIFICATION:

The invention relates to a [method of generating a] control program, according to which a laser-beam spot is guided, while being controlled with respect to position and time, over a cornea to be corrected, so as to ablate a predetermined ablation profile therefrom. The invention also relates to an electronic computer and to a device for corneal surgery of the eye, in which a control program generated by means of the method is used.

### IN THE CLAIMS:

1. (once amended) [Method of generating a] A control program, according to which a laser-beam spot is guided, while being controlled with respect to position and time, over a cornea to be corrected, so as to ablate a predetermined ablation profile therefrom,  
characterised in that, [when generating] the control program takes into account[,] the effect of the angle between the laser beam (68) and the corneal surface on the energy density of the laser-beam spot incident on the corneal surface [is taken into account].